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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/059,902	01/29/2002	William Navarro	P-6443	7393
75	90 04/21/2005		EXAMINER	
Michael L. Kenaga			WANG, TED M	
Piper Marbury Rudnick & Wolfe P.O. Box 64807			ART UNIT	PAPER NUMBER
Chicago, IL 60664-0807			2634	
			DATE MAILED: 04/21/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summary	10/059,902	NAVARRO ET AL.			
i i i i i i i i i i i i i i i i i i i	Examiner	Art Unit			
The MAU INC DATE of this areas in the	Ted M Wang	2634			
The MAILING DATE of this communication appeared for Reply	ears on the cover sheet with the o	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.131 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply of the period for reply is specified above, the maximum statutory period with the period for reply within the set or extended period for reply will, by statute, of Any reply received by the Office later than three months after the mailing of earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day Il apply and will expire SIX (6) MONTHS from	nely filed s will be considered timely. the mailing date of this communication			
Status					
3)⊠ Since this application is in condition for allowand closed in accordance with the practice under Ex Disposition of Claims 4)⊠ Claim(s) 1-4 is/are pending in the application.	action is non-final. se except for formal matters, pro parte Quayle, 1935 C.D. 11, 45	secution as to the merits is 3 O.G. 213.			
4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☑ Claim(s) 3 and 4 is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☑ Claim(s) 1 and 2 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.					
•	election requirement.				
Application Papers 9)⊠ The specification is objected to by the Examiner. 10)⊠ The drawing(s) filed on 27 March 2002 is/are: a)[Applicant may not request that any objection to the drawing sheet(s) including the correction 11)□ The oath or declaration is objected to by the Example Priority under 35 U.S.C. § 119	awing(s) be held in abeyance. See	37 CFR 1.85(a).			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1/29/02. U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office Action	4) Interview Summary (P Paper No(s)/Mail Date 5) Notice of Informal Pate 6) Other:	·			

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DETAILED ACTION

Drawings

- 1. The drawings are objected to because the following:
 - □ In Fig.2, change the connection from "element 55 to element 61" to --- element 55 to element 60 ---, as described in the specification page 12, lines 1-5.
 - □ In Fig.2, change the connection from "element 55 to element 81" to --- element 55 to element 80 ---, as described in the specification page 12, lines 8-10.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Claim Objections

2. Claims 1 and 2 are objected to because of the following informalities:

□ In claim 1, line 9, insert --- digital symbol --- before source.

Appropriate correction is required.

Allowable Subject Matter

- 3. Claims 1 and 2 would be allowable if rewritten to overcome the objection(s) set forth in this Office action.
- 4. Claims 3 and 4 are allowed.
- 5. The following is an examiner's statement of reasons for allowance.
 - The prior art fails to teach an apparatus of Claims 1-4 that specifically comprises the following:
 - -- The instant application is deemed to be directed to a non-obvious improvement over the invention patented in Pat. No. US 5,926,500, US 6,118,825, US 6,192,070, and US 6,782,036. The improvement comprises that
 - conversion means for converting M-ary symbols into M'-ary symbols; and
 - means for selectively activating the conversion means in response to a change of the active source so that the interleaving means generate least one block of interleaved M'-ary symbols including both symbols from at least one frame delivered by the second source and symbols obtained by conversion of M-ary symbols from at least one frame delivered by the first

source as recited, so as to improve the level of protection against errors (page 5 lines 1-10).

Conclusion

6. This application is in condition for allowance except for the following formal matters:

The abstract is objected by the examiner.

Prosecution on the merits is closed in accordance with the practice under *Ex* parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ted M. Wang whose telephone number is 571-272-3053. The examiner can normally be reached on M-F, 7:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571-272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ted M Wang Examiner Art Unit 2634

Ted M Wang

SHUWANG LIU PRIMARY EXAMINER

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